

## Components Mounted on Chassis (continued)

## (e) Miscellaneous

Battery carrier assembly	AWA 94766W31A	
Battery carrier cover assembly	AWA 94766V42A	
Foot, rubber	AWA 94765V597A	
Connector assembly, alternative, INPUT twin terminals:		
Jack mounting plate (mounts jack sockets)	AWA 94768V354	
Terminal, black and red	Belling Lee L1568/61S	
Washer	AWA 58934W1-28	
Knob, 1.1/2 inch, complete with cursor (REJECTION FREQUENCY control)	AWA 94766V111A & 94766V112A	
Knob, 1 inch, skirted, round, black (REJECTION BALANCE controls)		422943
Knob, 1 inch, pointer, skirted, black (SET REF. control)		422943
Knob, 7/8 inch, round, grey, (SET REF. control)		422943
Knob assembly (METER RANGE control):		
Knob, 15/16 inch, round, black	AWA 94766V113A	
Scale 2 inch	AWA 94766V114A	
M1 Meter, moving coil, 50 $\mu$ A, 3.5 k $\Omega$ $\pm 10\%$ , knife-edge pointer, calibrated in air, complete with scale, graduations to AWA Drg 94766V110A	AWA 94766V109A	
Nut, spire (for screwing case top and bottom covers)		492084
Screw, self tapping (for screwing case top and bottom covers)		760555
TR1 Transformer, input	AWA 2TU64440	

2.2 Components Mounted on Rejection Amplifier Board

## (a) Capacitors

1C1	47 $\mu$ F $\pm 20\%$ , 20 VDCW, electrolytic tantalum, style CS13	229569
1C2	0.75 pF $\pm 0.12$ pF, 500 VDCW, ceramic Ducon CDS NPO disc	

## Components Mounted on Rejection Amplifier Board (continued)

1C3	330 $\mu$ F $\pm$ 10%, 6 VDCW, electrolytic, tantalum, style CS13		229778
1C4	82 pF $\pm$ 5%, 125 VDCW, polystyrene	Allied Capacitors TCS0182	
1C5	220 $\mu$ F $\pm$ 10%, 10 VDCW, electrolytic, tantalum, style CS13		229765
1C6	1000 $\mu$ F $\pm$ 10%, 10 VDCW, electrolytic	Philips C437 AR/D1000	

## (b) Rectifiers

1MR1	Silicon	Fairchild AN1101 Fairchild AN2001 Telefunken 1N914	597291
1MR2	Silicon	Fairchild AN1101 Fairchild AN2001 Telefunken 1N914	597291

## (c) Resistors

1R1	10 k $\Omega$ $\pm$ 1%, 100 ppm/ $^{\circ}$ C, metal film	Painton PMF60	612062
1R2	100 k $\Omega$ $\pm$ 1%, 100 ppm/ $^{\circ}$ C, metal film	Painton PMF60	616037
1R3	220 k $\Omega$ $\pm$ 5%, 1/4W, carbon film	TTK RD1/4 SZJ	
1R4	470 $\Omega$ $\pm$ 5%, 1/4W, carbon film	TTK RD1/4 SZJ	606611
1R5	47 k $\Omega$ $\pm$ 5%, 1/4W, carbon film	TTK RD1/4 SZJ	614991
1R6	12 k $\Omega$ $\pm$ 5%, 1/4W, carbon film	TTK RD1/4 SZJ	612532
1R7	2.7 k $\Omega$ $\pm$ 5%, 1/4W, carbon film	TTK RD1/4 SZJ	609888
1R8	1 k $\Omega$ $\pm$ 5%, 1/4W, carbon film	TTK RD1/4 SZJ	608058
1R9	18 $\Omega$ $\pm$ 5%, 1/4W, carbon film	TTK RD1/4 SZJ	
1R10	390 $\Omega$ $\pm$ 5%, 1/4W, carbon film	TTK RD1/4 SZJ	
1R11	56 k $\Omega$ $\pm$ 5%, 1/4W, carbon film	TTK RD1/4 SZJ	615181
1R12	12 k $\Omega$ $\pm$ 5%, 1/4W, carbon film	TTK RD1/4 SZJ	612532
1R13	470 $\Omega$ $\pm$ 5%, 1/4W, carbon film	TTK RD1/4 SZJ	606611

## (d) Transistors

1VT1		Fairchild SE4010	
1VT2		Fairchild 2N3638A	206679
1VT3		Fairchild 2N3694	906687
1VT4		Fairchild 2N3638A	906679

### 2.3 Components Mounted on Meter Amplifier Board

#### (a) Capacitors

2C1	6.8 $\mu$ F -20+50%, 35 VDCW, electrolytic, STC TAG tantalum	228342
2C2	1000 $\mu$ F -10+50%, VDCW, electrolytic Philips C437AR/D1000	229916
2C3	6.8 $\mu$ F -20+50%, 35 VDCW, electrolytic, STC TAG tantalum	228342
2C4	1 $\mu$ F $\pm$ 5%, 160 VDCW, polyester Ducon DMA124	
2C5	1 $\mu$ F -20+50%, 35 VDCW, electrolytic, STC TAG1/35 tantalum	227850
2C6	220 $\mu$ F $\pm$ 10%, 10 VDCW, electrolytic, tantalum, style CS13	229765
2C7	330 $\mu$ F $\pm$ 10%, 6 VDCW, electrolytic, tantalum, style CS13	229778
2C8	220 $\mu$ F $\pm$ 10%, 10 VDCW, electrolytic, tantalum, style CS13	229765
2C9	22 $\mu$ F $\pm$ 20%, 15 VDCW, electrolytic, tantalum, style CS13	229320
2C10	1 $\mu$ F -20+50%, 35 VDCW, electrolytic, STC TAG1/35 tantalum	227850
2C11	0.011 $\mu$ F $\pm$ 2.1%, 63 VDCW, polystyrene Allied Capacitors TCS	
2C12	Not used	
2C13	6.8 $\mu$ F -20+50%, 35 VDCW, electrolytic, STC TAG tantalum	228342
2C14	330 $\mu$ F $\pm$ 10%, 6 VDCW, electrolytic, tantalum, style CS13	229778
2C15	400 $\mu$ F -10+50%, 10 VDCW, electrolytic Philips C436/D400	229787
2C16	1000 $\mu$ F -10+50%, 10 VDCW, electrolytic Philips C437AR/D1000	229916
2C17	1000 $\mu$ F -10+50%, 10 VDCW, electrolytic Philips C437AR/D1000	229916
2C18	0.015 $\mu$ F $\pm$ 2.1/2%, 63 VDCW, polystyrene Allied Capacitors TCS	
2C19	0.015 $\mu$ F $\pm$ 2.1/2%, 63 VDCW, polystyrene Allied Capacitors TCS	
2C20	0.0018 $\mu$ F $\pm$ 2.1/2%, 63 VDCW, polystyrene Allied Capacitors TCS	
2C21	0.0018 $\mu$ F $\pm$ 2.1/2%, 63 VDCW, polystyrene Allied Capacitors TCS	

## Components Mounted on Meter Amplifier Board (continued)

2C22	10 $\mu$ F -20+50%, 25 VDCW, electrolytic, STC TAG tantalum		228788
2C23	6.8 $\mu$ F -20+50%, 35 VDCW, electrolytic, STC TAG tantalum		228342
2C24	330 $\mu$ F $\pm$ 10%, 6 VDCW, electrolytic, tantalum, style CS13		229778
2C25	5 $\mu$ F $\pm$ 10%, 250 VDCW, polyester	A.E.E. PMT	228257
2C26	1000 $\mu$ F -10+50%, 10 VDCW, electrolytic	Philips C437AR/D1000	229916
2C27	22 $\mu$ F $\pm$ 20%, 15 VDCW, electrolytic, tantalum, style CS13		229320

## (b) Inductors

2L1	635 mH	AWA 108V57997
2L2	10.6 mH	AWA 107V57997

## (c) Rectifiers

2MR1)		
to )	Crystal diode	Philips OA47
2MR6)		

## (d) Resistors

2R1	33 k $\Omega$ $\pm$ 5%, 1/4W, carbon film	TTK RD1/4 SZJ	614489
2R2	100 k $\Omega$ $\pm$ 5%, 1/4W, carbon film	TTK RD1/4 SZJ	616039
2R3	22 k $\Omega$ $\pm$ 5%, 1/4W, carbon film	TTK RD1/4 SZJ	613677
2R4	4.7 k $\Omega$ $\pm$ 5%, 1/4W, carbon film	TTK RD1/4 SZJ	610973
2R5	470 $\pm$ 5%, 1/4W, carbon film	TTK RD1/4 SZJ	606611
2R6	680 $\Omega$ $\pm$ 5%, 1/4W, carbon film	TTK RD1/4 SZJ	607300
2R7	470 k $\Omega$ $\pm$ 5%, 1/4W, carbon film	TTK RD1/4 SZJ	
2R8	330 k $\Omega$ $\pm$ 5%, 1/4W, carbon film	TTK RD1/4 SZJ	
2R9	100 k $\Omega$ $\pm$ 5%, 1/4W, carbon film	TTK RD1/4 SZJ	616039
2R10	100 k $\Omega$ $\pm$ 5%, 1/4W, carbon film	TTK RD1/4 SZJ	616039
2R11	12 k $\Omega$ $\pm$ 5%, 1/4W, carbon film	TTK RD1/4 SZJ	612532
2R12	221 $\Omega$ $\pm$ 1%, 100 ppm/ $^{\circ}$ C, metal film	Painton PMF60	605312
2R13	2.2 k $\Omega$ $\pm$ 5%, 1/4W, carbon film	TTK RD1/4 SZJ	609469
2R14	5.6 k $\Omega$ $\pm$ 5%, 1/4W, carbon film	TTK RD1/4 SZJ	611314
2R15	8.2 k $\Omega$ $\pm$ 5%, 1/4W, carbon film	TTK RD1/SZJ	611865

## Components Mounted on Meter Amplifier Board (continued)

2R16	1 k $\Omega$ $\pm$ 5%, 1/4W, carbon film	TTK RD1/SZJ	608058
2R17	Not used		
2R18	Not used		
2R19	Not used		
2R20	5.6 k $\Omega$ $\pm$ 5%, 1/4W, carbon film	TTK RD1/4 SZJ	611314
2R21	1 M $\Omega$ $\pm$ 5%, 1/4W, carbon film	TTK RD1/4 SZJ	618041
2R22	270 k $\Omega$ $\pm$ 2%, 1/2W, metal oxide	Electrosil TR5	616966
2R23	100 k $\Omega$ $\pm$ 2%, 1/2W, metal oxide	Electrosil TR5	616043
2R24	3.9 k $\Omega$ $\pm$ 5%, 1/4W, carbon film	TTK RD1/4 SZJ	
2R25	1.8 k $\Omega$ $\pm$ 5%, 1/4W, carbon film	TTK RD1/4 SZJ	609092
2R26	2.74 k $\Omega$ $\pm$ 1%, 100 ppm/ $^{\circ}$ C, metal film	Painton PMF60	609920
2R27	576 $\Omega$ $\pm$ 1%, 100 ppm/ $^{\circ}$ C, metal film	Painton PMF60	606883
2R28	680 $\Omega$ $\pm$ 5%, 1/4W, carbon film	TTK RD1/4 SZJ	607300
2R29	604 $\Omega$ $\pm$ 1%, 100 ppm/ $^{\circ}$ C, metal film	Painton PMF60	606897
2R30	30 k $\Omega$ $\pm$ 2%, 1/2W, metal oxide	Electrosil TR5	614200
2R31	82 k $\Omega$ $\pm$ 2%, 1/2W, metal oxide	Electrosil TR5	615812
2R32	47 k $\Omega$ $\pm$ 5%, 1/4W, carbon film	TTK RD1/4 SZJ	614991
2R33	47 k $\Omega$ $\pm$ 5%, 1/4W, carbon film	TTK RD1/4 SZJ	614991
2R34	5.6 k $\Omega$ $\pm$ 5%, 1/4W, carbon film	TTK RD1/4 SZJ	611314
2R35	562 $\Omega$ $\pm$ 1%, 100 ppm/ $^{\circ}$ C, metal film	Painton PMF60	606870
2R36	47 k $\Omega$ $\pm$ 5%, 1/4W, carbon film	TTK RD1/4 SZJ	614991
2R37	180 $\Omega$ $\pm$ 5%, 1/4W, carbon film	TTK RD1/4 SZJ	604925
2R38	22 k $\Omega$ $\pm$ 5%, 1/4W, carbon film	TTK RD1/4 SZJ	613677
2R39	3.3 k $\Omega$ $\pm$ 5%, 1/4W, carbon film	TTK RD1/4 SZJ	610322
2R40	100 $\Omega$ $\pm$ 5%, 1/4W, carbon film	TTK RD1/4 SZJ	604061
2R41	220 $\Omega$ $\pm$ 5%, 1/4W, carbon film	TTK RD1/4 SZJ	605273
2R42	5.62 k $\Omega$ $\pm$ 1%, 100 ppm/ $^{\circ}$ C, metal film	Painton PMF60	611320
2R43	12 k $\Omega$ $\pm$ 1%, 100 ppm/ $^{\circ}$ C, metal film	Painton PMF60	612528
2RV1	2.5 k $\Omega$ variable, 1/2W, wire-wound, linear law, screwdriver slot	Colvern CLR1206/9S	621223

## (e) Transistors

2VT1	Fairchild 2N4250	906790
2VT2	Fairchild 2N4250	906790
2VT3	Fairchild 2N4250	906790
2VT4	Fairchild 2N4250	906790
2VT5	Fairchild 2N3694	906687

## Components Mounted on Meter Amplifier Board (continued)

2VT6	Fairchild 2N3638A	906679
2VT7	Fairchild 2N3638A	906679
2VT8	Fairchild 2N3694	906687
2VT9	Fairchild AN3638A	906679

## 3. PROGRAMME WEIGHTING NETWORK TYPE 1A94769

## (a) Capacitors

C1	Not used		
C2	0.055 $\mu$ F $\pm$ 5%, 63 VDCW, polystyrene	Allied Capacitors TCS	
C3	0.036 $\mu$ F $\pm$ 5%, 63 VDCW, polystyrene	Allied Capacitors TCS	
C4	0.012 $\mu$ F $\pm$ 5%, 63 VDCW, polystyrene	Allied Capacitors TCS0638	
C5	120 $\mu$ F $\pm$ 10%, 10 VDCW, electrolytic, tantalum, style CS13		229732
C6	3.3 $\mu$ F -20+50%, 35 VDCW, electrolytic, tantalum	STC TAG	228151
C7	0.0287 $\mu$ F $\pm$ 2.5%, 63 VDCW, polystyrene	Allied Capacitors TCS	
C8	0.0018 $\mu$ F $\pm$ 5%, 63 VDCW, polystyrene	Allied Capacitors TCS0618	
C9	0.0403 $\mu$ F $\pm$ 2.5%, 63 VDCW, polystyrene	Allied Capacitors TCS	
C10	0.0234 $\mu$ F $\pm$ 2.5%, 63 VDCW, polystyrene	Allied Capacitors TCS	
C11	0.003 $\mu$ F $\pm$ 2.5%, 63 VDCW, polystyrene	Allied Capacitors TCS	

## (b) Connectors

PL5	1-way, male, green	Harwin W3001
PL6	1-way, male, blue	Harwin W3001
PL7	Not used	
PL8	Not used	
PL9	1-way, male, white	Harwin W3001
PL0	1-way, male, black	Harwin W3001

## (c) Inductors

L1	28.93 mH	AWA 109V57997
L2	7.451 mH	AWA 110V57997

## Programme Weighting Network Type 1A94769 (continued)

## (d) Resistors

R1	576 $\Omega$ $\pm 1\%$ , 100 ppm/ $^{\circ}\text{C}$ , metal film	Painton PMF60	606883
R2	47 k $\Omega$ $\pm 5\%$ , 1/4W, carbon film	TTK RD1/4 SZJ	614991
R3	1 M $\Omega$ $\pm 5\%$ , 1/4W, carbon film	TTK RD1/4 SZJ	618041
R4	14.7 k $\Omega$ $\pm 1\%$ , 100 ppm/ $^{\circ}\text{C}$ , metal film	Painton PMF60	612877
R5	4.87 k $\Omega$ $\pm 1\%$ , 100 ppm/ $^{\circ}\text{C}$ , metal film	Painton PMF60	611040
R6	22 k $\Omega$ $\pm 5\%$ , 1/4W, carbon film	TTK RD1/4 SZJ	613677
R7	6.8 k $\Omega$ $\pm 5\%$ , 1/4W, carbon film	TTK RD1/4 SZJ	611547
R8	4.7 k $\Omega$ $\pm 5\%$ , 1/4W, carbon film	TTK RD1/4 SZJ	610973
R9	4.7 k $\Omega$ $\pm 1\%$ , 100 ppm/ $^{\circ}\text{C}$ , metal film	Painton PMF60	610946
R10	221 $\Omega$ $\pm 1\%$ , 100 ppm/ $^{\circ}\text{C}$ , metal film	Painton PMF60	605312
R11	1.74 k $\Omega$ $\pm 1\%$ , 100 ppm/ $^{\circ}\text{C}$ , metal film	Painton PMF60	608993
R12	604 $\Omega$ $\pm 1\%$ , 100 ppm/ $^{\circ}\text{C}$ , metal film	Painton PMF60	606897

## (e) Transistors

VT1	Fairchild 2N3638A	906679
VT2	Fairchild 2N3694	

## 4. POWER SUPPLY TYPE 1H94770

## (a) Capacitors

C1	250 $\mu\text{F}$ -10+50%, 64 VDCW, electrolytic	Philips C437AR/H250	229770
C2	220 $\mu\text{F}$ $\pm 10\%$ , 10 VDCW, electrolytic, tantalum, style CS13		229765

## (b) Connectors

PLA	3-way, male	Clipsal 439Z	
PLB	6-way, female	Bulgin P428	233982
PLC	3-way, female	Lumberg K31	233952
SKA	Not used		
SKB	6-way, male, panel mounting	Bulgin P427	233982

## (c) Fuses

FS1	Glass cartridge, 100 mA	Belling Lee L562	369968
FS2	Glass cartridge, miniature, 250 mA	Belling Lee L562	370058

(d) Rectifiers

MR1	Silicon	AWV 1N3193	597233
MR2	Silicon	AWV 1N3193	597233
MR3	Silicon	AWV 1N3193	597233
MR4	Silicon	AWV 1N3193	597233
MR5	Silicon	AWV 1N3193	597233
MR6	Diode, Zener, 9.1 V $\pm 5\%$	Philips BZY88/C9V1	596894

(e) Resistors

R1	180 $\Omega$ $\pm 5\%$ , 1/4W, carbon film	TTK RD1/4 SZJ	604925
R2	6.8 k $\Omega$ $\pm 5\%$ , 1/2W, metal oxide film	Electrosil TR5	
R3	100 $\Omega$ $\pm 5\%$ , 1/4W, carbon film	TTK RD1/4 SZJ	604061

(f) Miscellaneous

SWA	Switch, slide, Oak "70" series D.P.D.T. non-shorting	AWA Part 22778	
TR1	Transformer	AWA 1LE64558	
VT1	Transistor	RCA 2N4036	906712

End of Part



### ADDENDUM TO COMPONENT SCHEDULE

Components of the same electrical and mechanical parameters but of different style or manufacturer have been used in the production of these instruments. The following table of equivalents should be used when procuring replacement components.

<u>Item</u>	<u>Description</u>	<u>Manufacturers Reference</u>	<u>Equiv. Item</u>
1	Germanium diode, OA160	Telefunken	2
2	Germanium diode, AA138	Telefunken	1
3	Transistor, 2N3565	Fairchild	4
4	Transistor, TT3565	STC	3
5	Transistor, 2N3638	Fairchild	6
6	Transistor, TT3638	STC	5
7	Transistor, 2N3638A	Fairchild	8
8	Transistor, TT3638A	STC	7
9	Transistor, 2N3694	Fairchild	10
10	Transistor, TT3694	STC	9
11	Transistor, 2N4121	Fairchild	12
12	Transistor, TT4121	STC	11
13	Resistor, $\pm 5\%$ , 1/4W, carbon film	TTK RD1/4SZJ	14, 15
14	Resistor, $\pm 2\%$ or $\pm 5\%$ , 1/2W, metal oxide	Electrosil TR5	13, 15
15	Resistor, $\pm 2\%$ , 1/2W, metal oxide	Electrosil TRH5	13, 14
16	Resistor, $\pm 1\%$ , 1/8W, 100ppm/ $^{\circ}$ C, metal film	Painton PMF60	17, 18
17	Resistor, $\pm 1\%$ , 1/4W, 100ppm/ $^{\circ}$ C, metal oxide	Corning NA60	16, 18
18	Resistor, $\pm 1\%$ , 1/4W, 100ppm/ $^{\circ}$ C, metal oxide	Electrosil C5	16, 17
19	Resistor, $\pm 1/2\%$ , 1/8W, 50ppm/ $^{\circ}$ C, metal film	Painton PMF60	20
20	Resistor, $\pm 1/2\%$ , 1/8W, 50ppm/ $^{\circ}$ C, metal oxide	Corning NC5	19
21	Resistor, $\pm 1/2\%$ , 1/8W, 100ppm/ $^{\circ}$ C, metal film	Painton PMF60	22
22	Resistor, $\pm 1/2\%$ , 1/4W, 100ppm/ $^{\circ}$ C, metal oxide	Corning NA60	21
23	Resistor $\pm 1\%$ , 1/8W, 50ppm/ $^{\circ}$ C, metal film	Painton PMF60	24
24	Resistor, $\pm 1\%$ , 1/8W, 50 ppm/ $^{\circ}$ C, metal oxide	Corning NC5	23